

Summary Sustainable Development Data 2017

Following the launch of the MPA Charter in 2017, MPA's Summary Sustainable Development Data is now set out to align with our 7 main Strategic Priorities. The overall objectives within these 7 priorities are set out in this document, together with a number of targets. The identification of objectives and targets will evolve as the MPA Charter is implemented and we would welcome any feedback on the information set out here. Further information can be found at www.mineralproducts.org.

MPA Vision for 2025 *'to be valued as an essential and economically, socially and environmentally sustainable industry of significance to the economy and our way of life.'*

MPA's 7 Strategic Priorities



INTRODUCTION

The Mineral Products Association (MPA) is the trade association for the aggregates, asphalt, cement, concrete, dimension stone, lime, mortar and silica sand industries. It has a growing membership of 480 companies and is the sectoral voice for mineral products. MPA membership is made up of the vast majority of independent SME quarrying companies throughout the UK, as well as the major international and global companies. It covers 100% of GB cement production, 90% of aggregates production, 95% of asphalt and over 70% of ready-mixed concrete and precast concrete production. Sustainability impacts on every aspect of our activities - from quarry development to restoration, dredging and recycling to manufacturing and transport operations, to the use of our products and materials in construction and other activities. More detailed data and additional product information can be found in the sustainable development reports for Cement, Concrete, Lime and Marine Aggregates.

Communicating Industry Value



The mineral products industry has an annual turnover of £20bn, a gross value added of £6.4bn, employs 78,000 people and supplies industries with a total turnover of £495bn.

Sales of mineral products were generally positive in 2016 and all materials except quicklime and dolomite saw some level of growth compared to production in 2015. Sales of aggregates increased by 4% compared to 2015, whilst ready-mixed concrete sales continued to accelerate in 2016 (+4%) compared to 2015 (+4.4%), increasingly influenced by infrastructure projects, with more modest contributions from housing. Asphalt sales also grew by 4% in 2016, boosted by faster spending on national roads, notably in Scotland. MPA will publish updated information on 2017 industry sales in early February 2018.



Health & Safety



OBJECTIVE: EMPLOYEE AND CONTRACTOR HEALTH AND SAFETY

Treat the health and safety and well-being of employees, contractors and visitors as the number one priority in order to achieve Zero Harm.

TARGET

The MPA targets Zero Harm to all employees and contractors; in order to move further in that direction, we have set a target of further reducing Lost Time incidents by 65% between 2014 and 2019.

The Lost Time Incident Frequency Rate (Lost Time Incidents per million employees - all MPA activities) fell by 8% to 3.47 in 2016. However, we would advise that after several years of good progress there was a significant worsening in the industry's health and safety performance during 2017, which is resulting in a fundamental review of the industry's approach to improving health and safety.



People



OBJECTIVE: EQUALITY AND DIVERSITY

Encourage opportunities in the industry for all, attracting and retaining the best talent.

In 2016, 24,563 people were directly employed by MPA Members, of which, 83% were male and 17% female.

OBJECTIVE: LOCAL COMMUNITIES

Engage fully with local communities and strive to be good neighbours.

253 justified complaints were recorded by MPA members in 2016, 43% less than last year, with a quarter relating to noise.



Resource Use



OBJECTIVE: WATER

Optimise the use of water and ensure prudent management

TARGET

100% of sites to be measured for water consumption and discharges by 2025.

The MPA Water Working Group produced and published the first industry Water Strategy during 2017 with an aim to improve monitoring and reduce water use, where possible, on all Member sites. Data on consumption is now being collected and will be published in the future.

OBJECTIVE: ACCESS TO SUFFICIENT MINERALS AND RESOURCES

Plan, consult and engage with communities, planning authorities and regulators when seeking new permissions to ensure steady and adequate supply.

MPA's annual survey of the replenishment of aggregates reserves indicated that in 2016, 6% of crushed rock sales and 20% of terrestrial sand and gravel sales were replaced by new planning permissions. The more meaningful 10 year average replenishment rates for crushed rock and sand and gravel were 117% and 60% respectively.

OBJECTIVE: WASTE

Minimise waste and maximise re-use and recycling

Members reported that they sent 42,547 tonnes of waste to landfill during 2016. They also used 4,416,508 tonnes of waste beneficially in quarry restoration and site engineering. Further work is being undertaken to collect data on extractive waste arisings, as defined under the Mining Waste Directive. Recycled and secondary materials accounted for 29% of the GB aggregates market.

Climate Change & Energy



OBJECTIVE: ENERGY

Optimise the use of energy whilst maximising the use of non-fossil fuels

CO₂ emissions per tonne of cement production declined by 2% in 2016 but there were small increases recorded for other less energy intensive mineral products.

OBJECTIVE: TRANSPORT

Reduce the climate change and other impacts of the transportation and delivery of products.



TARGET

To understand and obtain a baseline for the amount of CO₂ produced per tonne of product during transportation by 2020.

17% of aggregates were delivered by rail and water as the primary transport modes in 2016. Average road delivery distances are relatively short, recorded at 30 miles for aggregates, 21 miles for asphalt and 7 miles for ready-mixed concrete.

Natural Environment



OBJECTIVE: BIODIVERSITY

Protect and enhance biodiversity and deliver net gain wherever possible.

TARGET

100% of extractive sites to have a Biodiversity Action Plan in place by 2025.

Members reported that 66% of their extractive sites had a Biodiversity Action Plan (BAP) in place in 2016. MPA Guidance will be prepared to help members assess the potential for BAPs on their sites.

MPA members recorded at least 6,000 HA of priority habitats created to 2016 and at least a further 8,700 HA planned.

OBJECTIVE: ENVIRONMENTAL PROTECTION

Minimise and mitigate operational impacts.

TARGET

100% sites to have an Environmental Management System in place by 2025.

92% of surveyed aggregates sites had certified Environment Management System (EMS) in place. 100% of cement sites have an EMS in place and the equivalent figures for surveyed asphalt and ready-mixed concrete sites were 99% and 95%.

Built Environment



OBJECTIVE: SUSTAINABLE PRODUCTS

Promote the development and use of sustainable and responsibly sourced mineral products.

91% of surveyed quarries reported that they operated under the British Standard EN ISO 9001 Quality Management System. Other Member sites reported similar results with 97% of ready-mixed concrete, 99% of asphalt, 85% of wharves and 100% of slag processing sites also covered by the Standard.

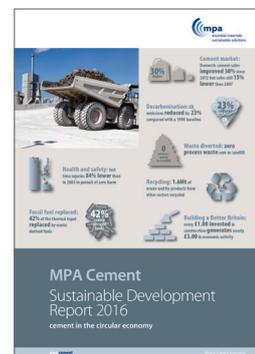
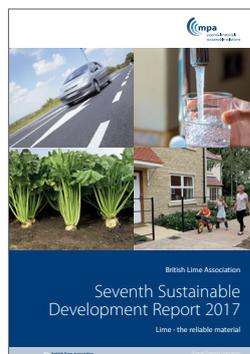
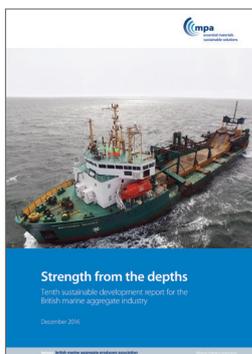
Members also reported that for aggregates, ready-mixed concrete and asphalt over 95% of surveyed production was certified to 'very good' or 'excellent' level under the Responsible Sourcing Standard BES6001.



SUMMARY DATA	UNITS	2014	2015	2016	% CHANGE
Aggregates production (primary) GB	GB mt	154.6	162.0	168.7	4%
Recycled/ secondary materials GB	GB mt	61.0	64.5	66.9	4%
Asphalt sales GB	GB mt	20.6	21.9	22.7	4%
Ready-mixed concrete sales GB	GB m ³	16.4	17.0	17.7	4%
Cement- domestic sales GB (2015- UK onwards)	GB mt	9.0	10.2	10.5	3%
Quicklime and Dolomite GB	GB mt	1.3	1.2	1.0	-17%
Per capita production primary aggregates (GB/EU)	tonnes	2.5/4.4	2.6/4.5	2.6/4.6	
Aggregate sites with certified EMS	% of survey	96.0	92.0	92.0	0%
Cement sites with certified EMS	%	100.0	100.0	100.0	0%
CO ₂ emissions directly from cement production	kg/tonne	679.0	709.0	695.6	-2%
CO ₂ emissions from crushed rock production	kg/tonne	3.8	3.4	3.7	9%
CO ₂ emissions from sand and gravel - land won prod	kg/tonne	3.5	2.4	3.4	30%
CO ₂ emissions from asphalt production	kg/tonne	33.9	25.2	27.0	7%
CO ₂ emissions from ready-mixed concrete prod	kg/tonne	0.8	0.7	0.6	-17%
Share of sales moved by rail (aggregates)	%	12.0	10.2	10.1	-1%
Average road delivery distance (aggregates)	miles	32.0	35.0	30.1	-14%
Average road load (aggregates)	tonnes	22.7	22.3	22.6	1%
Marine dredged aggregates landings for construction use	mt	11.7	13.2	13.5	2%
Priority Habitats created to date by MPA members	Ha			6,000.0	
Priority Habitats planned by MPA members	Ha			8,700.0	
Water: metered consumption, aggregates	cubic metre/tonne			0.077	
Waste and by products recovered as raw materials and fuels by cement industry	mt	1.6	1.6	1.5	-6%
Archaeology- land investigated pre-planning permission	Ha	331.0	307.0	245.0	-25%
Archaeology- land investigated post-planning permission	Ha	183.0	226.0	93.6	-141%
Proportion of UK land area being quarried (aggregates)	%	0.1	0.1	0.1	
Area of seabed dredged	km ²	85.7	82.7	88	6%
Lost Time Incident Frequency Rate (LTIs per million employees- all MPA activities)		3.3	3.8	3.5	-8%
Employment- direct by MPA members (excl cement, precast)		22,021	21,653	25,294	
Employment- direct by MPA Members (cement)		2,517	2,339	2,201	
Number of recorded complaints (aggregates)		419	444	253	-43%
Number of community liaison groups (aggregates)		246	270	253	-7%
Liaison group meetings (cement)		26	31	30	-3%
Recorded visitors to aggregates sites, cement kiln sites		30,292	33,568	22,130	-52%
Trees planted		46,846	151,443	133,698	-13%
Hedgerows planted	km	5.5	4.6	11.1	59%
Dry Stone Walling- Kilometres built	km	0.7	10.0	9.8	-2%

Note: Industry data based on information supplied by MPA Members.

Sustainable Development across the MPA



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For further MPA information visit www.mineralproducts.org

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